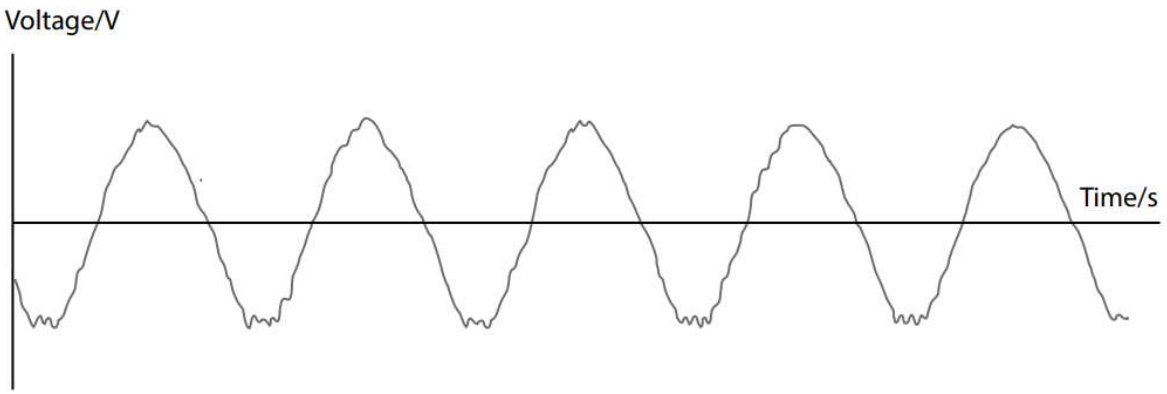
Task 12

1. Below is a waveform of a Vocal. Identify **two** features of the graph that show this is a vocal waveform.

1. _____
2. _____

2. On the graph, label the amplitude and period.



The vocal was digitally recorded using a sample rate of 44.1kHz. Explain why, according to Nyquist's theorem, this recording quality is sufficient to record this vocal performance.

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Task 13

1. Explain the purpose of using compression on vocal recordings.

2. On the compressor below, suggest some suitable settings for a male lead rock vocal.

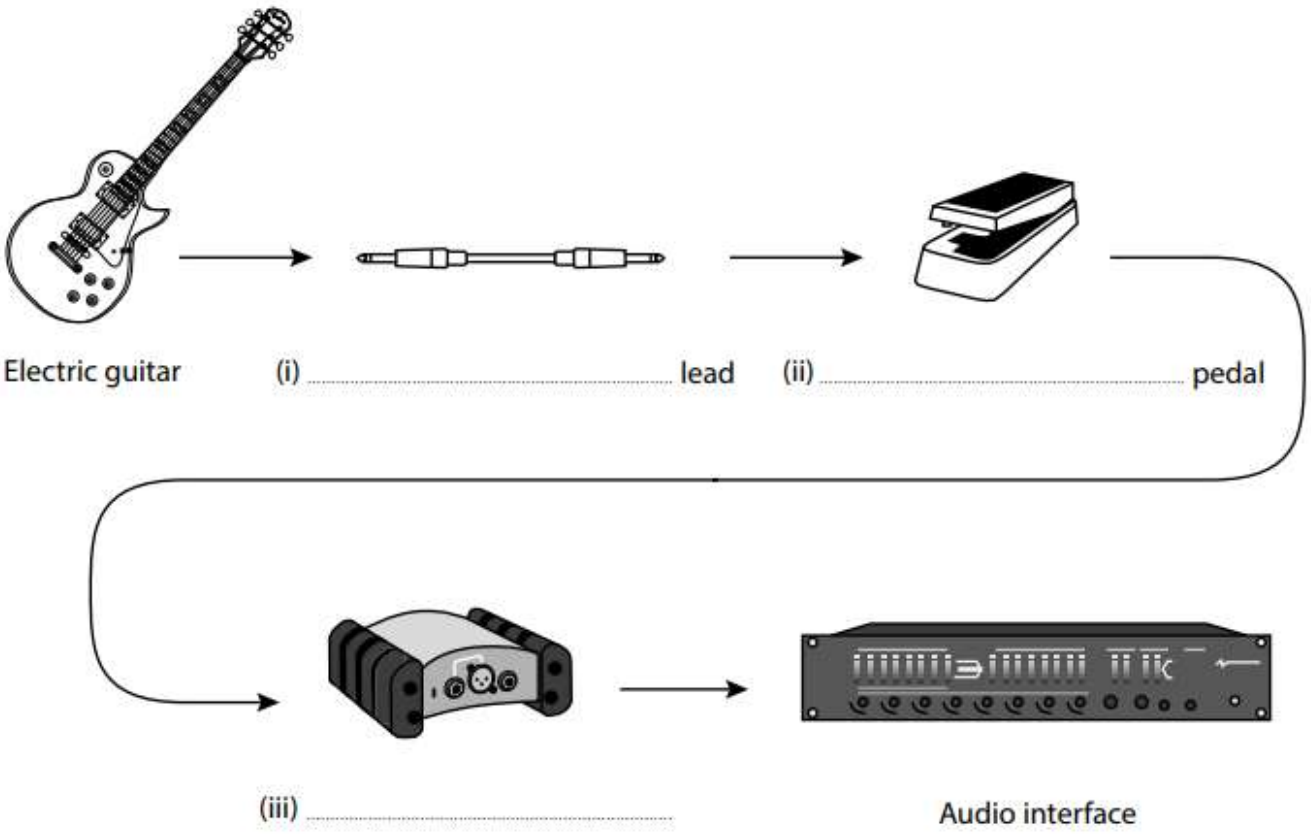
Task 14

Identify and explain features and applications of these leads.

Cable:	Features / Applications

Task 15

1. Label the diagram.



2. What is a D.I? _____

3. Compare using a D.I to record an electric guitar with using an amplifier.

_____

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Task 16

1. Below is a Fender Stratocaster electric guitar. What kind of pickups does this guitar use?

_____

These pickups are susceptible to to noise.

3. Below is a Gibson Les Paul electric guitar. This guitar uses different pickups that reduce the amount of noise.

1. What are they called? _____
2. Explain how these pickups work

_____

_____

_____

_____

_____

_____

3. Give two possible causes of unwanted sound in a guitar track.

1. _____

2. _____

_____

Task 17

Below is an analogue drum machine.

1. What does analogue mean?

_____

_____

_____

2. Explain the function of the AC or ACcent control

_____

_____

_____

3. State **three** disadvantages of using the analogue drum machine shown instead of modern DAW-based plug-in drum machines.

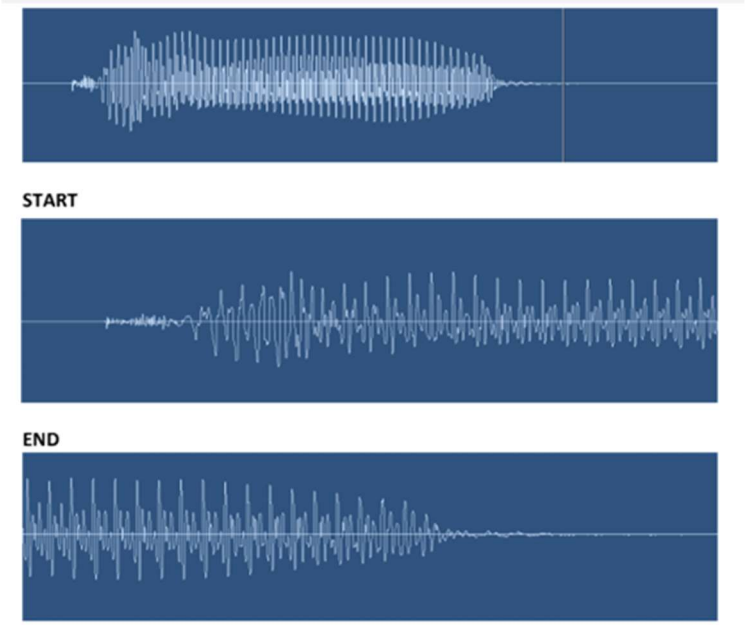
1. _____

2. _____

3. _____

Task 18

The diagram below shows a section of vocal waveform captured by a microphone.



1. By drawing a cross on the waveform, identify appropriate **start** and **end** points to create a smooth loop so this sound sustains

2. Explain why it is important to use fades or crossfades when joining two sections of truncated audio.

_____

_____

_____

_____

3. Describe how compression could be used to increase a sample's sustain.

_____

_____

_____

_____

Task 19

1. The table below shows the position of the switches on a condenser microphone used to record a vocal. Identify the function of each switch and suggest why each setting has been used.

Switch	Function	Justification
	(1)	(1)
	(1)	(1)
	(1)	(1)

2. Explain why a condenser microphone has been used to record this vocal.

_____

_____

_____

_____

3. State one recording scenario in which you could utilise a figure of 8 polar pattern.

_____

_____

_____

_____

Task 20

1. Modulation effects are produced by an LFO. State what these three letters stand for.

_____

2. State what aspect of the sound is being modulated in a tremolo effect.

_____

Modulation Effect	Explanation/Example
Chorus	
Flanger	
Phaser	
Tremolo	

Task 21

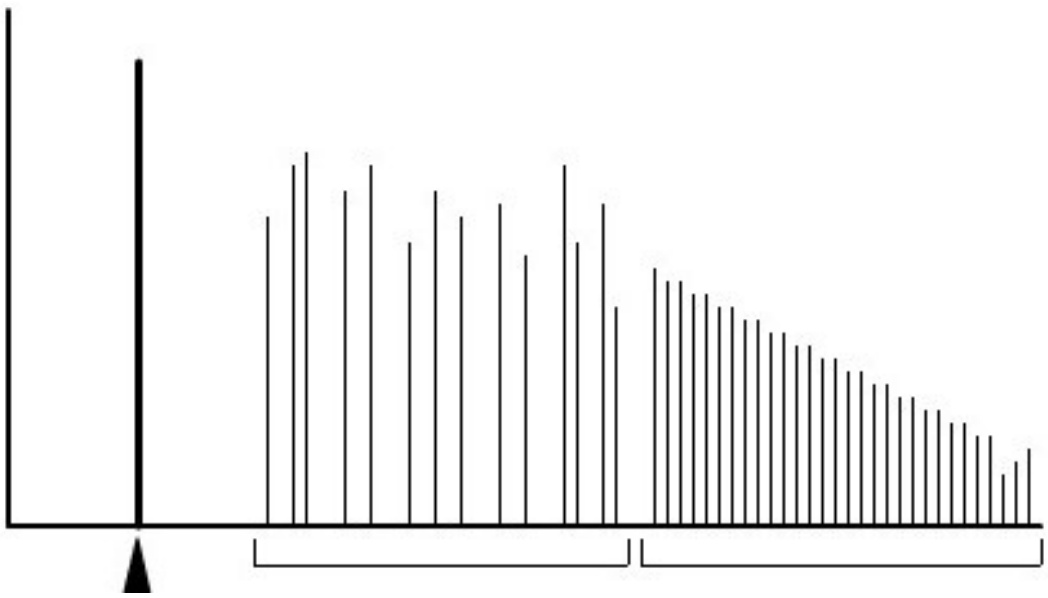
Reverb Type	Explanation/Example
Chamber Reverb	
Plate Reverb	
Spring Reverb	
Digital Reverb	
Convolution Reverb	

Task 22

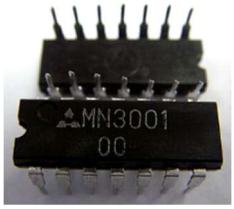
1. What is reverb?

2. Name 3 types of reverb and give an example of when they could be used.

3. Label the graph below. i) Amplitude ii) Time iii) Direct sound iv) Earl reflections v) Reverb



Task 23

Delay Type	Explanation/Example
Line Delay 	
Magnetic Tape Delay 	
Oil-Can Delay 	
Solid-State Delay 	
Digital Delay 	